

Polykemi AB POLYelast TPE HJ-75 UV Thermoplastic Elastomer, PP/Elastomer/Mineral, UV-Stabilized, Low CLTE

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYelast-TPE-HJ-75-UV-Thermoplastic-Elastomer-PPElastomerMineral-UV-Stabilized-Low-CLTE.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ISO 1183
Filler Content	12 %	12 %	±2%; Polykemi
Melt Index of Compound	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 @Time 15.0 sec	55 @Time 0.00417 hour	Polykemi
Tensile Strength at Break	<= 18.0 MPa	<= 2610 psi	ISO/R527
Elongation at Break	>= 100 %	>= 100 %	ISO/R527
Flexural Modulus	1.00 GPa @Temperature 23.0 °C	145 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180/4A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.800 J/cm ² @Temperature -20.0 °C	3.81 ft-lb/in ² @Temperature -4.00 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C	36.1 µin/in-°F	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	120°C/h; ISO 75/1

Thermal Properties	125 °C Metric	257 °F English	Comments
	@Load 1.00 kg	@Load 2.21 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 °C	446 - 482 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	
Injection Pressure	40.0 - 80.0 MPa	5800 - 11600 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	

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